

Fig. 1 Block diagram representing the architectural functions of a pyro-optical sensor system based on modulation of the transmissivity of a carrier beam through a pyro-optical-film (prior art)

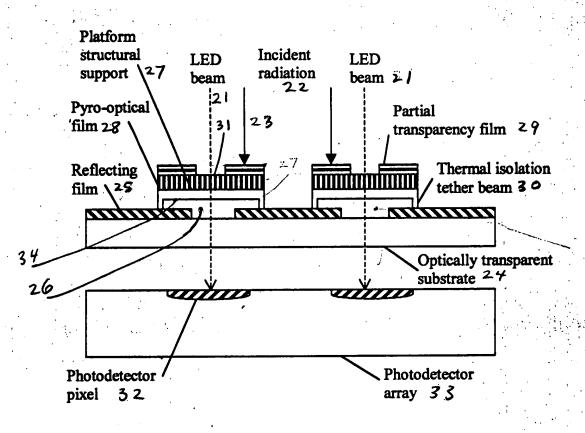
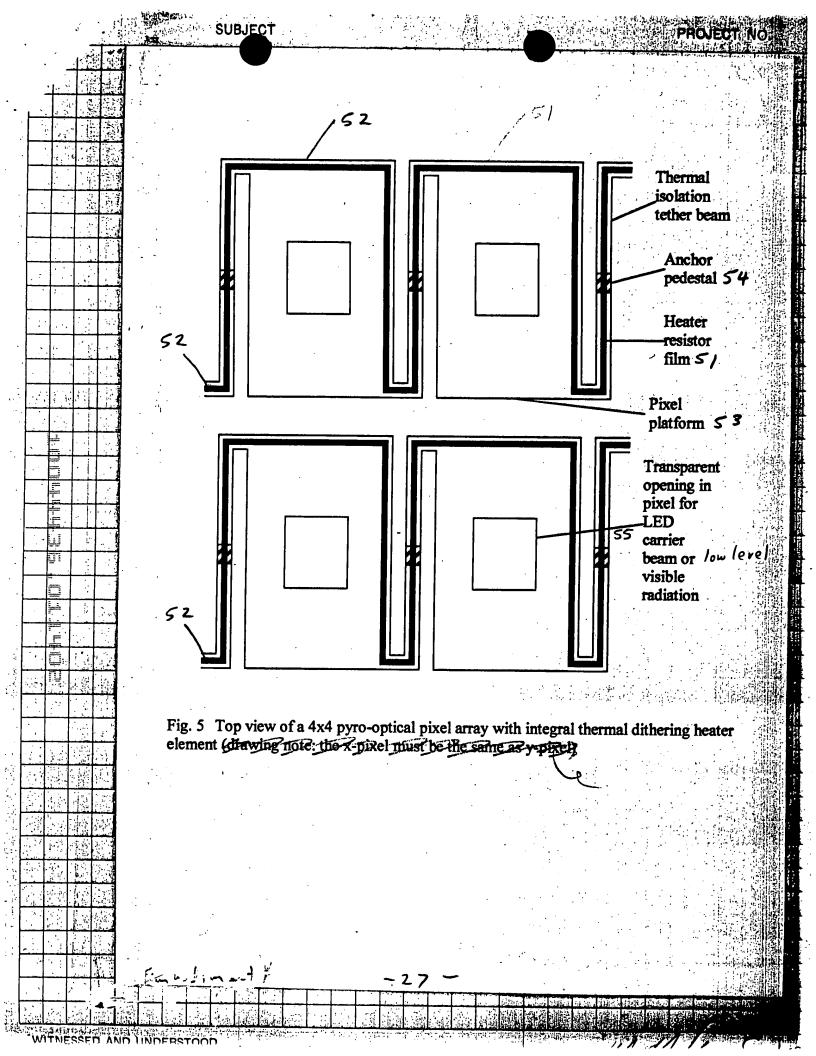


Fig. 2 Cross-section schematic view of embodiment 1 a pyro-optical pixel with Fabry-Perot structures optimized for infrared sensor performance at a specific wavelength band.



Voltage source for electrostatic actuation the platform 63

actuates

Fig. 6 Top view of a 4x4 array of pixels overlaying the metallic reflector in configuration for electrostatic actuation of pixel for resetting the temperature of pixels to the substrate reference temperature. Pixel tether beams are flexible and permit the platform to touch the substrate when the voltage is applied between the platform and the underlying metallic conductor (embodiment 5)

-28-